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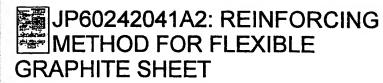


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FUKUDA HIROYUKI SHIGETA MASATOMO KAJI HISATSUGU SAITO KUNIYUKI

KUREHA CHEM IND CO LTD

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Dec. 2, 1985 / April 10, 1984

JP1984000071659

B29C 67/14; C01B 31/04; C04B 41/83; H01M 8/02; C08J 5/24; B29L 7/00;

**Purpose:** To improve strenth and gas permeability, by a method wherein a flexible graphite sheet is impregnated with a specified liquid thermosetting resin under a reduced pressure, and the resin is hardened by heating.

Constitution: The flexible graphite sheet preferably degassed is placed in a liquid thermosetting resin having a carbonization rate of not lower than 20%, preferably, a phenolic resin adhesive or an epoxy resin adhesive, then the ambient pressure is reduced, and upon the starting of gasification of low boiling point components in the liquid, the pressure is returned to a normal pressure, then the pressure is again reduced, and these operations are preferably repeated several times to impregnate the sheet with the resin in an amount of 0.5W20wt% based on the sheet. Thereafter, the sheet is taken out, the liquid adhered to the surface of the sheet is removed, and the resin is hardened by a hot press to reinforce the sheet. USE: Heat-resistant packings, separators for fuel cells or the like.

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CHEMABS 104(10)073772D

(No patents reference this one)

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Patent Number:	□ <u>US4729910</u>
Publication date:	1988-03-08
Inventor(s):	FUKUDA HIROYUKI (JP); SHIGETA MASATOMO (JP); KAJI HISATSUGU (JP) SAITOH KUNIYUKI (JP)
Applicant(s)::	KUREHA CHEMICAL IND CO LTD (JP)
Requested Patent:	□ <u>JP60242041</u>
Application Number:	US19850719562 19850403
Priority Number (s):	JP19840071659 19840410
IPC Classification:	·
EC Classification:	C04B35/536, H01M4/96, H01M8/02C2C
Equivalents:	CA1272080,
	Abstract ·
prepared by impre- carbonizing yield of	s a reinforced flexible graphite sheet uniformly containing a thermosetting resin gnating a flexible graphite sheet with a liquid thermosetting resin having the of more than 20% under a reduced pressure and thereafter, heat-setting the resin, in impregnated being in the range of 0.5 to 20% by weight based on the flexible

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LERNER AND GREENBERG P.A. P.O. BOX 2480 HOLLYWOOD, FLORIDA 33022 TEL. (954) 925-1100